Supplemental Information Disclosure Citation

Applicants: Thomas P. Abbott et al.

Title: 3-Methoxybenzyl Thiourea Derivatives and Improved Lipid Compositions Containing Same

Application No.: 10/633,252

Filed: August 1, 2003

Group Art Unit: 1621

Examiner:

1. Foreign Patent Documents

Examiner Initial	Country	Document Number	Publication Number	Publication Date
	PCT	PCT/DK 97/00324	WO 98/05294	2/12/98

2. Other Documents

Examiner Initials	Author	Title, Publication, Relevant Pages, Date and Place of Publication
	Nadia Leonetta et al.	"Proprieta E Applicazioni Cosmetiche Di Un Nuovo Ingrediente Vegetale Dalle Caratteristiche Multifunzionali," Cosmetic News 117, 406-411 (1997).

Examiner's Name: _____

Examiner's Signature: _____

Date Considered: 5/13/05, 2005

Information Disclosure Citation

4988900/0010

Applicants: Thomas P. Abbott et al.

Application No.:

Title: 3-Methoxybenzyl Thiourea Derivatives and Improved Lipid Compositions Containing Same

Filed: Simultaneously Herewith

Group Art Unit: 1621

Examiner: E. J. Reitz

1. **U.S. Patent Documents**

Examiner Initial	Patent Number	Issue Date	Name	Class	Subclass	Filing Date
	2,154,341	4/11/39	Martin et al.	37	16	3/23/36
	2,662,096	12/8/53	Huebner et al.	260	552	7/20/51
	3,483,296	12/9/69	Martin et al.	424	322	3/22/66
	3,743,736	7/3/73	Porter et al.	424	267	6/23/71
	3,852,348	12/3/74	Teach	260	553	3/12/73
	3,949,089	4/6/76	Maxwell et al.	424	326	1/14/74
	3,991,008	9/11/76	Temin et al.	260	42.15	8/12/74
	4,925,581	5/15/90	Erickson et al.	252	48.2	7/19/88
	5,079,304	1/7/92	DeMarco	525	329.8	12/18/89
	5,262,072	11/16/93	Camenzind et al.	252	32.7	6/24/91
	5,441,984	8/15/95	Heath et al.	514	595	11/14/94
	5,434,283	7/18/95	Wang et al.	554	224	8/31/94
	5,747,528	5/5/98	Kakidas	514	456	1/24/97
	6,013,818	1/11/00	O'Lenick, Jr.	554	224	8/3/98
	6,136,330	10/24/00	Soliman et al.	424	401	10/30/98

6,180,668	1/30/01	O'Lenick, Jr. et al.	514	547	6/11/99
6,545,052	4/8/03	Wohlman et al.	514	587	11/29/00

2. Foreign Patent Documents

Examiner Initial	Country	Document Number	Publication Number	Publication Date
	Europe	91810474.6	EP 0 466 639 B1	6/19/91
	Europe		EP 0 903 349 A2	3/24/99
	PCT		WO 96/28008	9/19/96
	Deutsche Demokratische Republic		DD 208 298 A	5/2/84

3. **Other Documents**

Examiner Initials	Author	Title, Publication, Relevant Pages, Date and Place of Publication
	Martin G. Ettlinger et al.	"The Mustard Oil of *Limnanthes douglasii* Seed, m-Methoxybenzyl Isothiocynate," Journal of the American Chemical Society, Vol. 78, No. 9, Pages 1952-1954 (1956).
	T.S. Chao et al.	"Some Synergistic Antioxidants for Synthetic Lubricants," Symposium on Synthetic and Petroleum-Based Lubricants Presented Before the Division of Petroleum Chemistry, Inc., 27(2), 362-379, American Chemical Society, Las Vegas Meeting, March 28-April 2, 1982.
	T.P. Abbott	"Oxidative Stability System in Meadowfoam," Abstract from the 89th AOCS Annual Meeting & Expo, Chicago, Illinois, May 10-13 (1998).

M. Rechcigl, Jr. — CRC Handbook of Naturally Occurring Food Toxicants, CRC Press, Inc. (Boca Raton, Florida), Pages 15-30 (1983).

S. Vaughn et al. — "Isolation and Identification of (3-Methoxyphenyl) Acetonitrile as a Phytotoxin from Meadowfoam (*Limnanthes alba*) Seedmeal," Journal of Chemical Ecology, Vol. 22, No. 10, 1939-1949 (1996).

T. Johns et al. — "Anti-Reproductive and Other Medicinal Effects of *Tropaeolum Tuberosum*," Journal of Ethnopharmacology 5, 149-161 (1982).

T.A. Isbell et al. — "Oxidative Stability Index of Vegetable Oils in Binary Mixtures with Meadowfoam Oil," Industrial Crops and Products 9, 115-123 (1999).

K. Tian et al. — "Determination of Oxidative Stability of Oils and Fats," Anal. Chem. 71, 1692-1698 (1999).

S. El. Migirab et al. — "Isothiocyanates, Thioureas et Thiocarbamates Isoles De Pentadip landra Brazzeana," Phytochemistry 16, 1719-1721 (1977).

W.W. Christie — "Antioxidants," Bell & Bain Ltd., Glasgow, The Oily Press, Ltd. (Dundee, Scotland, 1988), Pages 133-159.

G. Kajimoto et al. — "Changes in Organic Acid Formulation in Volatile Degradation Products During Oxidation of Oils Treated with Antioxidant," Fac. Nutr., Kobe Gakuin Univ., Kobe, Japan. Nippon Eiyo, Shokuryo Gakkaishi 51(4), 207-212 (1998).

K. Ziegler-Skylakakis — "S-Oxygenation of Thiourea Results in the Formation of Genotoxic Products," Environ. Mol. Mutagen. 31(4), 362-373 (1998).

	S.L. Mali et al.	"Phytochemical Oxidation of Phenyl-3-(2-Pyridyl)Thiourea by Singlet Oxygen," Asian J. Chem. 5(4), 808-812 (1993).
	A. Mustafa et al.	"Reaction of Thiourea with Hydrogen Peroxide: Carbon-13 NMR Studies of an Oxidative/Reductive Bleaching Process," Text. Res. J. 62(2), 94-100 (1992).
	Internet	"Uses of Meadowfoam Seed Oil™," March 9, 2000, http://www.meadowfoam.com/uses/htm.
	T. Abbott et al.	"Antioxidants from Meadowfoam Stabilizes Other Oils," Abstract, Assoc. for the Adv. of Ind. Crops, October 15-17, 2000, St. Louis, MO.

4. Pending U.S. Patent Applications

Examiner Initials	Application Number	Filing Date	Applicants
	U.S. Serial No. 09/840,768	April 23, 2001	Thomas P. Abbott et al.
	U.S. Serial No. 10/075,418	February 14, 2002	Thomas P. Abbott et al.
	U.S. Serial No. 10/338,313	January 8, 2003	Alan Wohlman et al.
	U.S. Serial No. 10/426,122	April 29, 2003	Thomas P. Abbott et al.

5. Presentations

Examiner Initials	Relevant Information
	89th Am. Oil Chem. Soc., May 10-13, 1998, Chicago, Illinois. This presentation discussed some of the compounds that are present in crude meadowfoam seed oil that do not contribute substantially to the oxidative stability of lipids or oils. It did not discuss any 1-(3-methoxybenzyl)-3-substituted thiourea compounds.
	Assoc. for the Adv. of Ind. Crops, October 15-17, 2000, St. Louis, MO. This presentation identified the presence of 1,3-di(3-methoxybenzyl) thiourca in meadowfoam seed oil. No other 1-(3-methoxybenzyl)-3-substituted thiourea compounds were discussed.

Examiner's Name: ELVIS O. PRICE

Examiner's Signature:

Date Considered: 5/15/05, 2005